PUB. DIM-594

Canon

DV Network Software Version 2

Instruction Manual (Installation and Preparation)

E

Mode d'emploi (Installation et préparation)

F

Manual de Instrucciones (Instalación y preparativos)

Es

This manual covers the installation and the connection procedures only. For more operating instructions, refer to the PDF format manual provided on the DIGITAL VIDEO SOLUTION DISK For Windows.

Ce manuel traite uniquement des procédures d'installation et de connexion. Pour les instructions d'utilisation, reportez-vous au manuel au format PDF fourni sur le disque DIGITAL VIDEO SOLUTION DISK For Windows.

Este manual solamente cubre los procedimientos de instalación y conexión. Para más instrucciones de operación, consulte el manual en formato PDF contenido en el disco DIGITAL VIDEO SOLUTION DISK For Windows.

This software is for use with Windows® XP only.
Ce logiciel ne peut être employé que sous Windows® XP.
Este software solamente es compatible con Windows® XP.

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PDF-Format Manual

More details of the features and procedures for using the DV Network Software are explained in the PDF format manual provided on the DIGITAL VIDEO SOLUTION DISK For Windows.

- ❍In order to view the PDF manual, Adobe Acrobat Reader needs to be installed on your computer. If it is not, install it by double-clicking [AR405ENG.EXE] in the same folder as your PDF manual.
- ❍We recommend copying the PDF file to your computer.

1. Set the DIGITAL VIDEO SOLUTION DISK For Windows in the computer's CD-ROM drive.
   If the installer panel opens, click [Exit] to close it.
2. Select [My Computer] from the [start] menu.
3. Right-click the CD-ROM icon and select [Open] from the displayed menu.
4. Double-click the [DV NETWORK SOFTWARE] folder followed by the [MANUAL] and [ENGLISH] folder.
5. Double-click [DV NETWORKV2ENG N.PDF].
   The PDF manual opens.

Read This First

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- AV/C Camera Storage Subunit is a standard for downloading and uploading files using an AV device equipped with the IEEE1394. The driver complies with the "AV/C Camera Storage Subunit Version 1.0" by the IEEE1394 Trade Association.
- WIA stands for Windows Image Acquisition. WIA is a driver software for downloading images from digital devices onto a computer. WIA is preinstalled on Windows XP.

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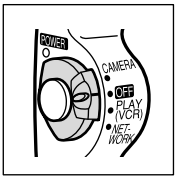
Safety Precautions

Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROM(s). Playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer from hearing loss from listening with headphones to the loud sound of a CD-ROM played on a music CD player.

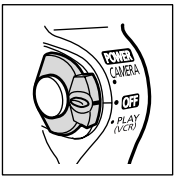
About This Manual

- In this manual, DV Messenger Version 2 is abbreviated as "DV Messenger".
- In this manual, the operating modes of camcorders are described as following:
  - CAMERA mode: Mode for recording video and sound to tape.
  - PLAY (VCR) mode: Mode for playing back video and sound recorded on a tape.
  - CARD PLAY (VCR) mode: Mode for playing back images recorded on a memory card.
  - NETWORK mode: Mode for connecting to the computer for using DV Messenger.
- The explanations in this manual refer to camcorders equipped with the NETWORK mode on the POWER switch of the camcorder. If your camcorder is not equipped with the NETWORK mode, refer to the instructions in parenthesis (Camcorder without NETWORK mode:).

Camcorder with NETWORK mode



Camcorder without NETWORK mode



- Please note that the screens used in this manual may change.

System Requirements

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OS:	Microsoft Windows XP Home Edition or Professional (Installation of Service Pack 1 recommended) Proper operation is not guaranteed on Windows XP that has been upgraded from a previous version.
CPU:	Pentium 500 MHz or better (800 MHz or better recommended)
RAM:	128 MB or more (256 MB or more recommended)
Interface:	USB (1.1/2.0) or IEEE1394 (OHCI compliant)
Free Hard Disk Space:	• DV Messenger: 100 MB or more • Canon USB Video Driver: 1 MB or more • AV/C Camera Storage Subunit-WIA Driver: 1 MB or more
Display:	800 × 600 pixels/High Color (16 bit) or better
Others:	Windows Messenger Version 4.5, 4.6 or 4.7, sound function, Internet connection* * Using a standard dial-up connection is possible, but we recommend using a broadband connection to the Internet.

- ❍ Proper operation is not guaranteed on a dual CPU PC or on a user-built PC.
- ❍ Proper operation is not guaranteed on any particular system, even if it meets the requirements outlined above.
- ❍ Do not connect two or more camcorders to the computer at the same time. The connection may not work correctly.
- ❍ A CD-ROM drive is required to install the software.

USB connection:

- ❍ Connect the USB cable directly to one of the computer's main USB ports. The interface may not function correctly if the camcorder is connected via a USB hub.
- ❍ The connection may not operate correctly if you are using other USB devices, excluding USB mice or keyboards, at the same time. If this occurs, disconnect the other devices from the computer and try reconnecting the camcorder.
- ❍ Not all operations performed with a connection to a USB 2.0 compatible board can be guaranteed.

DV (IEEE1394) connection:

- ❍ Connect the camcorder directly to the computer using a DV (IEEE1394) cable. The connection may not operate correctly if the camcorder is connected via a repeater or other IEEE1394 devices, or if more than one IEEE1394 device is connected to the computer.
- ❍ Do not connect another IEEE1394 device while the AV/C Camera Storage Subunit-WIA Driver is operating. The connection may not operate correctly.

What Can Be Accomplished with the Software

This topic introduces the main features of the DV Network Software contained on the DIGITAL VIDEO SOLUTION DISK For Windows.

DV Messenger Version 2

DV Messenger is a software that operates with Windows Messenger preinstalled on Windows XP. You can use following operations with your digital camcorder via the Internet.

DV Messenger Version 2 is not compatible with DV Messenger Version 1. You cannot communicate with a contact who is using DV Messenger Version 1. Ask your contact to download DV Messenger Version 2 from the free download site.

■ Real-Time Video Communication (Videoconference) (🕮 31)

You can use your camcorder and computer for real-time video and voice communication.

■ Sharing Recorded Video

You can send video and sound recorded with the camcorder via the Internet.

■ Camcorder Operation

Canon camcorders only (refer to the table on p.11)

You can operate the camcorder connected to your computer and the camcorder connected to your contact's computer.

■ Sharing Images

Canon camcorders only (refer to the table on p.11)

You can transfer image files from a memory card in the camcorder of your contact to your computer.

■ Image Capture

Canon camcorders only (refer to the table on p.11)

You can capture still images with the camcorder connected to your or your contact's computer and save them to your computer.

■ View & Record

Canon camcorders only (refer to the table on p.11)

You can remotely access the computer at home using DV Messenger and view the picture of the camcorder (you need to keep computer and camcorder turned on).

Canon USB Video Driver USB

Canon camcorders only (refer to the table below)

If your camcorder is equipped with the NETWORK mode, installing the Canon USB Video Driver allows you to use DV Messenger by connecting the camcorder to a computer using a USB cable.

AV/C Camera Storage Subunit-WIA Driver IEEE1394

Canon camcorders only (refer to the table below)

The AV/C Camera Storage Subunit-WIA Driver is a software that allows you to use your camcorder as a card reader/writer by connecting camcorder and computer, both equipped with a DV (IEEE1394) terminal, with a DV (IEEE1394) cable.

If you have installed the AV/C Camera Storage Subunit-WIA driver contained on the DV NETWORK SOLUTION DISK Version 1, make sure to install the driver provided with the DV Network Software when installing DV Messenger Version 2 (you do not need to uninstall the prior driver for this procedure).

- **Downloading Files from Memory Card to Computer**
- **Uploading Files from Computer to Memory Card**

Available Functions by Camcorder Model

Some functions cannot be used depending on the camcorder model (see below tables).
Please refer to the Canon homepage for latest camcorder models.

❍ All functions can be used.

OPTURA Xi	OPTURA300

❍ The View & Record function, Image Capture function cannot be used. You cannot connect the camcorder using a USB cable (Canon USB Video Driver cannot be used).

ELURA40 MC	OPTURA20	ZR50 MC
ELURA50	OPTURA200 MC	ZR65 MC
GL2	ZR45 MC	ZR70 MC
OPTURA10	ZR47MC KR	

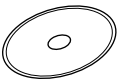
❍ The View & Record function, Image Capture function and AV/C Camera Storage Subunit-WIA Driver cannot be used. You cannot connect the camcorder using a USB cable (Canon USB Video Driver cannot be used). If your contact has one of the below camcorders, you cannot transfer files from the contact's camcorder to your computer.

GL1	OPTURA100 MC	ZR25 MC
ELURA	OPTURA Pi	ZR30 MC
ELURA2/ELURA2 MC	XL1S	ZR40
ELURA10	ZR10	ZR60
ELURA20 MC	ZR20	

Required Accessories

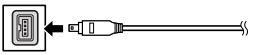
You need following items for using the Software:

- Digital Camcorder
- DIGITAL VIDEO SOLUTION DISK For Windows (Supplied)

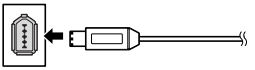


- USB Cable or DV (IEEE1394) Cable
  If your camcorder is not equipped with the NETWORK mode on the POWER switch, use a DV cable. Check the manual of your computer for which type of DV cable to use.

4-pin:



6-pin:



- Speaker or Headphones (when using DV Messenger)

Read Carefully

- ❍ If you leave the camcorder turned on for a long time, heat generation may cause damage to the camcorder. Turn off the camcorder after use.
- ❍ Tapes may be damaged if left in the camcorder for a long time. Do not leave tapes in the camcorder to prevent damage.
- ❍ If you leave the camcorder turned on for a long time (e.g. when using the View & Record or Image Capture (interval mode) function), observe the following fire precautions.
  - Do not use the camcorder in hot or humid places.
  - Do not leave the camcorder exposed to direct sunlight.
  - Do not cover the camcorder with blankets or clothes.
  - Do not leave the camcorder in a box or tight spaces.
  - Do not leave the camcorder outdoors.

Requirements for Using DV Messenger

To use DV Messenger, it is required that Windows XP is installed and Windows Messenger 4.5, 4.6 or 4.7 operates correctly.
Make sure to confirm the following before installing DV Messenger.

1. Windows XP and Windows Messenger 4.5, 4.6 or 4.7 are installed*.
2. Windows Messenger operates and its voice or video conversation can be used*.
3. If you are using a router for Internet connection: your router is UPnP (Universal Plug and Play) compatible.**
   (Some modems are equipped with a router function. For details, refer to the manual of the modem.)

* This software is compatible with Windows XP only. It cannot be used with other Operating Systems. Furthermore, Windows Messenger 4.5, 4.6 or 4.7 is required. Establish an environment that allows the use of this software. Please consult Microsoft for details.

** If you use a router to connect to the Internet, the router must be UPnP (Universal Plug and Play) compatible and it must be recognized as "Internet Gateway Device" (📖 25). For details, consult your Internet service provider, telephone carrier or router manufacturer, or refer to the manual of the router.

Be aware that your contact can access the contents of the tape or memory card in your camcorder when using DV Messenger.

Free Download
If your contact does not have DV Messenger or is using DV Messenger Version 1, DV Messenger Version 2 can be downloaded from the following homepage:
http://www.canondv.com/

Installing the Software

Installing the DV Network Software

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With this procedure, the DV Messenger will be installed and the driver files for the AV/C Camera Storage Subunit-WIA Driver and Canon USB Video Driver will be copied to your computer. The drivers will be installed when you connect the camcorder to the computer. For the installation procedure of the Canon USB Video Driver, see p. 18. For the installation procedure of the AV/C Camera Storage Subunit-WIA Driver, see p. 19.

❍ **Do not connect the camcorder to the computer when installing the DV Network Software.**

❍ DV Messenger can only be installed with Windows Messenger 4.5, 4.6 or 4.7. Download Windows Messenger 4.7 from the Microsoft homepage and update your Windows Messenger if necessary. Please consult Microsoft for details.

❍ Users of Windows XP Professional must first log in as an Administrator to install programs.

1. Close any programs that are running.

2. Set the DIGITAL VIDEO SOLUTION DISK For Windows in the computer's CD-ROM drive.

- The installer panel opens automatically.
- If the installer panel does not appear automatically, use the following procedures to display it.
  1. Select [My Computer] from the [Start] menu.
  2. Right-click the CD-ROM icon and select [Open] from the displayed menu.
  3. Double-click the [Setup.exe] icon.
     Depending on the setting of your computer, the file extension ".exe" may not appear.

3. Select your language.

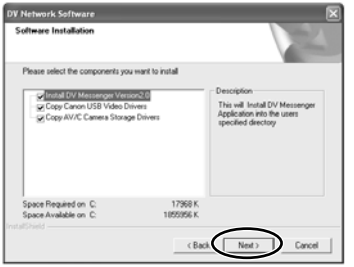
4. **Click [DV Network Software Installation].**

5. **Select your language and click [OK].**

- If Windows Messenger 4.5, 4.6 or 4.7 is not installed on your computer, a dialog appears indicating that DV Messenger cannot be installed.
  If you wish to install only the AV/C Camera Storage Subunit-WIA Driver, close the dialog and proceed with the installation.
  If you wish to install DV Messenger, close the window and cancel the installation process by clicking [Cancel] on the Install Shield Wizard. Upgrade Windows Messenger and restart installation.

6. **When the [InstallShield Wizard] appears, click [Next].**

7. Select the software you wish to install and click [Next].

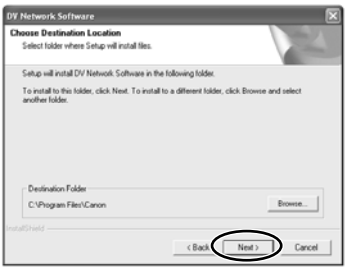

DV Network Software
Software Installation
Please select the components you want to install
Install DV Messenger Version2.0
Copy Canon USB Video Drivers
Copy AV/C Camera Storage Drivers
Description
This will Install DV Messenger Application into the users specified directory
Space Required on C:
17968 K
Space Available on C:
1855956 K
< Back
Next >
Cancel

8. Read the license agreements and click [Yes].

9. When the confirmation window appears, click [Yes].

10. Confirm the target folder and click [Next].

If a dialog appears asking you whether you wish to create a shortcut of DV Messenger on the desktop, click [Yes].


DV Network Software
Choose Destination Location
Select folder where Setup will install files.
Setup will install DV Network Software in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Canon
Browse...
< Back
Next >
Cancel

11. Click [Finish].

- The computer restarts and installation is complete.
- When installation is complete, remove the DIGITAL VIDEO SOLUTION DISK For Windows before you connect the camcorder to the computer.

DV Network Software
Restarting Windows
The InstallShield Wizard has successfully installed DV Network Software. Before you can use the program, you must restart your computer.
Click Finish to close DV Network Software setup.
Finish
Cancel

Installing the Canon USB Video Driver

Installing the Canon USB Video Driver allows you to use DV Messenger by connecting the camcorder to a computer using a USB cable.

- ❍ The Canon USB Video Driver can only be used with camcorders equipped with the NETWORK mode.
- ❍ Before installing the driver following the procedure below, install the DV Network Software first to copy the driver files to the computer.
- ❍ Close any programs that are running before installing the driver.
- ❍ Do not turn off the camcorder until the driver installation is complete. And do not interrupt the installation.
- ❍ Users of Windows XP Professional must first log in as an Administrator to install programs.

1. Connect the power adapter to the camcorder.

2. Set the camcorder to NETWORK mode.

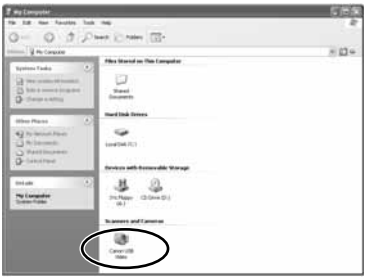
3. Connect the camcorder to the computer using the USB cable (📖 22).

- The driver installation starts automatically.
- A window appears allowing you to select an application program to start. Click [Cancel] to close the window.

4. Restart the computer.

5. Check if the driver has been installed correctly.

From the [start] menu, select [My Computer] and check if the [Canon USB Video] icon appears. If the icon does not appear, the installation has not been completed properly. Uninstall and reinstall the driver.



Installing the AV/C Camera Storage Subunit-WIA Driver

- ❍ Before installing the driver following the procedure below, install the DV Network Software first to copy the driver files to the computer.
- ❍ Close any programs that are running before installing the driver.
- ❍ Do not turn off the camcorder until the driver installation is complete. And do not interrupt the installation.
- ❍ Users of Windows XP Professional must first log in as an Administrator to install programs.

1. Connect the power adapter to the camcorder.

2. Set the camcorder to NETWORK or CARD PLAY (VCR) mode. (Camcorder without NETWORK mode: Set the camcorder to CARD PLAY (VCR) mode.)

3. Connect the camcorder to the computer using the DV cable (📖 22).

- The driver installation starts automatically.
- Depending on the setting of your computer, a video editing program may start. In such case, close this program.
- If the installation is complete, the Scanner and Camera Wizard or a dialog for selecting an application appears. Click [Cancel] to close the dialog.

4. Restart the computer.

5. Check if the driver has been installed correctly.

From the [start] menu, select [My Computer] and check if the [Canon Camera Storage Device] icon appears. If the icon does not appear, the installation has not been completed properly. Uninstall and reinstall the driver.

■ Changing the Automatic Start Setting

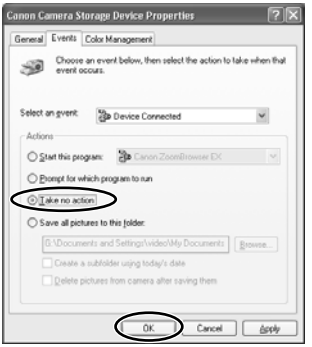
When you install the driver, a window appears allowing you to select an application program to start each time you connect the camcorder to the computer. When using DV Messenger, we recommend setting the computer not to start any application.

1. **Connect the power adapter to the camcorder.**
2. **Set the camcorder to NETWORK or CARD PLAY (VCR) mode.**
3. **Connect the camcorder to the computer using the DV cable (📖22).**
4. **From the [start] menu, select [My Computer].**
5. **Right-click the mouse button on the [Canon Camera Storage Device] icon and select [Properties].**

6. **Click the [Events] tab.**

7. Select [Device Connected] for [Select an event] and [Take no action] for [Actions] and click [OK].

No application will start automatically when you connect the camcorder to the computer the next time.



❍ To start a WIA-compliant application automatically, select [Start this program] and click [OK].

❍ If the started application displays a message such as [TWAIN data source not found. Reinstall the scanner software.], select [WIA-Canon Camera Storage] and use the WIA-TWAIN Driver.

Connecting the Camcorder to a Computer

If your camcorder is equipped with the NETWORK mode, you can use a DV cable or a USB cable to connect your camcorder to the computer. If your computer is not equipped with the NETWORK mode, use the DV cable.

Connecting the Camcorder Using a USB Cable

- ❍ Make sure to install the DV Network Software before connecting the camcorder to the computer.
- ❍ Make sure the camcorder is being powered by the compact power adapter before connecting it to a computer.
- ❍ Do not connect any devices to the camcorder's DV terminal when connecting the camcorder to the computer using the USB terminal.

Attach the supplied USB cable to the computer's USB port and the camcorder's USB Terminal.

- Refer to your computer manual for the location of the computer's USB ports.
- See your camcorder instruction manual for connecting instructions.

Connecting the Camcorder Using a DV Cable

- ❍ Make sure to install the DV Network Software before connecting the camcorder to the computer.
- ❍ Make sure the camcorder is being powered by the compact power adapter before connecting it to a computer.
- ❍ Do not connect any devices to the camcorder's USB terminal when connecting the camcorder to the computer using the DV terminal.

Attach the DV cable to the computer's IEEE1394 terminal and the camcorder's DV terminal.

- Refer to your computer manual for the location of the computer's IEEE1394 terminal.
- See your camcorder's instruction manual for connecting instructions.

Preparations for DV Messenger

Before you use DV Messenger, check whether the camcorder is correctly connected to the computer.

E

Checking the Camcorder Connection

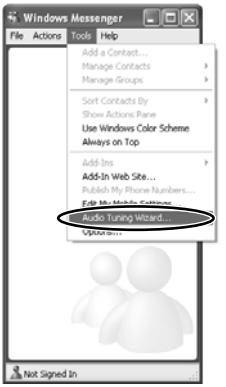
1. Connect the power adapter to the camcorder.

2. Set the camcorder to NETWORK mode.
(Camcorder without NETWORK mode: Set the camcorder to CAMERA mode.)

3. Connect the camcorder to the computer using the USB cable or DV cable (📖 22).
(Camcorder without NETWORK mode: Connect the camcorder to the computer using the DV cable (📖 22).)

4. From the [start] menu, select [All Programs] and [Windows Messenger].
- [Windows Messenger] appears.
- If the [.NET Passport Wizard] appears, click [Cancel].

5. From the [Tools] menu, select [Audio Tuning Wizard].



DV Messenger

6. Click [Next].

Audio and Video Tuning Wizard
This wizard helps you verify that your camera, speakers, and microphone are working properly.
Before continuing:
1. Close all other programs that show video, or play or record sound.
2. Make sure your camera, speakers, and microphone are plugged in and turned on.
To continue, click Next.
< Back
Next >
Cancel

7. Confirm that your camcorder is displayed and click [Cancel].

- If you are connecting a Canon camcorder using a USB cable, check if [Canon USB Video] is displayed. If you are connecting a Canon camcorder using a DV cable, check if [Canon DV Device] is displayed.
- If [Canon DV Device] or [Canon USB Video] does not appear, click to display the device list and check if it is listed.
- If [Canon DV Device] or [Canon USB Video] is not listed, perform [Windows Messenger Audio Update] from [Windows Update] or install Windows XP Service Pack 1. Please consult Microsoft for details.

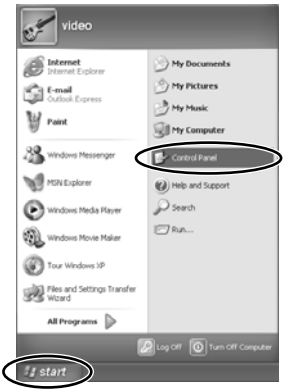
Setting the UPnP Router

E

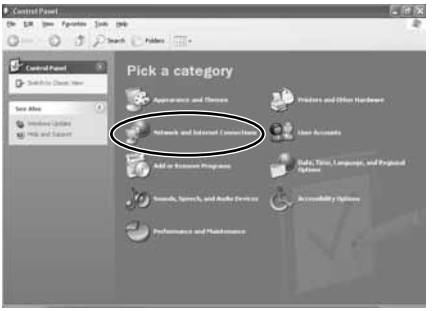
If you are using an UPnP-compliant router to connect to the Internet, you need to install UPnP and disable the firewall of Windows XP to use DV Messenger.

■ Installing UPnP

1. From the [start] menu, select [Control Panel].

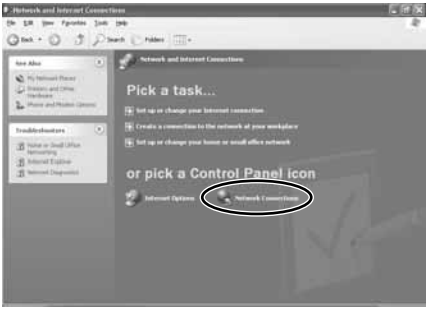


2. Click [Network and Internet Connections].

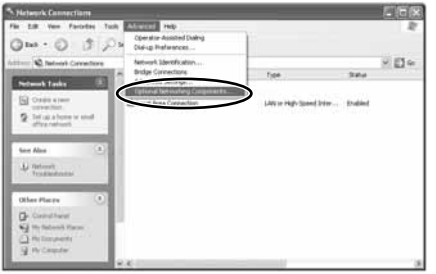


DV Messenger

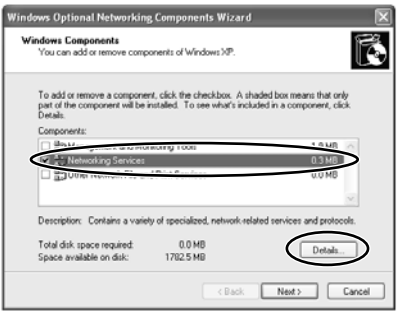
3. **Click [Network Connections].**



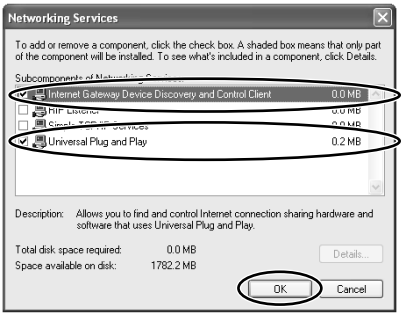
4. **From the [Advanced] menu, select [Optional Networking Components] from the displayed menu.**



5. **Select [Networking Services] and click [Details].**


Windows Optional Networking Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Networking Services
0.3 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 0.0 MB
Space available on disk: 1702.5 MB
Details...
< Back
Next >
Cancel

6. **Place a checkmark next to [Universal Plug and Play] (if you have installed Service Pack 1, place also a check mark next to [Internet Gateway Device Discovery and Control Client]) and click [OK].**


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
Universal Plug and Play 0.2 MB
Description: Allows you to find and control Internet connection sharing hardware and software that uses Universal Plug and Play.
Total disk space required: 0.0 MB
Space available on disk: 1782.2 MB
Details...
OK
Cancel

7. **Click [Next].**

Installation starts.

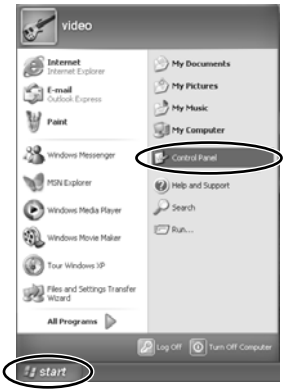
8. **When installation is complete, restart your computer.**

After restart, repeat steps 1 to 3 and check if an icon appears under [Internet Gateway Device]. If not, your router is not correctly recognized by the computer and DV Messenger cannot be used. In such case, check the firewall setting (📖 28).

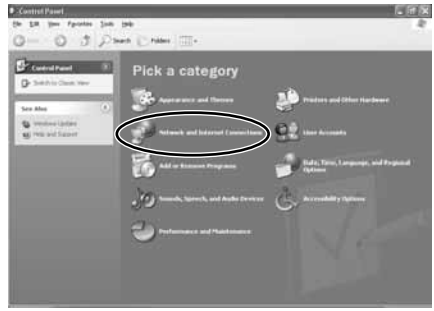
■ Disabling the Firewall

About the Firewall
The firewall is an important security system that protects your computer by limiting or preventing access by other computers on the Internet. If you disable the function, other computers may be able to access the files on your computer, or write files onto your hard disk. Disable the firewall before using DV Messenger, and make sure to re-enable the firewall after use.

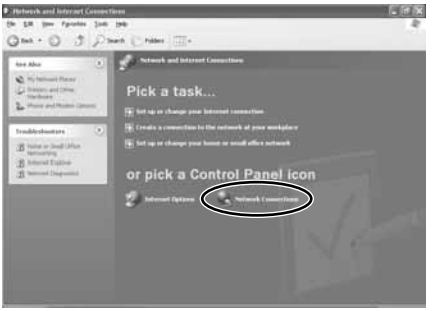
1. From the [start] menu, select [Control Panel].



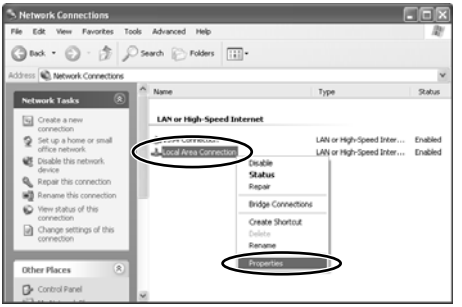
2. Click [Network and Internet Connections].



3. **Click [Network Connections].**



4. **Select [Local Area Connection], right-click the mouse button and select [Properties].**



5. **Click the [Advanced] tab, remove the checkmark ✓ from the [Internet Connection Firewall] section and click [OK].**

Local Area Connection Properties
General
Authentication
Advanced
Internet Connection Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Learn more about Internet Connection Firewall.
If you're not sure how to set these properties, use the Network Setup Wizard instead.
Settings...
OK
Cancel

6. **Restart the computer.**

After restart, repeat steps 1 to 3 and check if an icon appears under [Internet Gateway Device]. If not, your router is not correctly recognized by the computer and DV Messenger cannot be used. In such case, the firewall function of an Internet security software or anti-virus software may be active. For instructions on how to disable the firewall function, consult the software or computer manufacturer.

To enable the firewall after using DV Messenger, repeat steps 1 to 4 and place the checkmark back to the checkbox.

Videoconferencing

Starting DV Messenger

E

- ❍DV Messenger will not start when you have signed in to Windows Messenger. In such case, sign out of Windows Messenger first and start DV Messenger.
- ❍Do not access the memory card using programs such as Windows Explorer while DV Messenger is started.
- ❍Do not update Windows Messenger while DV Messenger is started.
- ❍Do not connect two or more digital camcorders to the computer.
- ❍Do not disconnect the interface cable while DV Messenger is started.
- ❍If an anti-virus software is installed on your computer, the firewall of the software may be active. In such case, you need to deactivate its firewall function. For further details, consult your software or computer manufacturer.
- ❍If you are using an UPnP-compliant router, you need to install UPnP and disable Windows XP's firewall (🕮 25).

DV Messenger

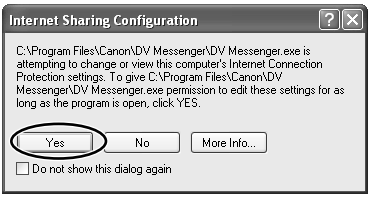
1. **Set the camcorder to NETWORK mode. (Camcorder without NETWORK mode: Set the camcorder to CAMERA mode.)**

2. **Connect the camcorder to the computer (🕮 22).**

3. **Connect to the Internet.**

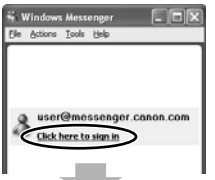
4. **Double-click the [DV Messenger] icon on the desktop, or select [DV Messenger] from the [start] menu.**

- If the [Internet Sharing Configuration] window appears, click [Yes].


Internet Sharing Configuration
C:\Program Files\Canon\DV Messenger\DV Messenger.exe is attempting to change or view this computer's Internet Connection Protection settings. To give C:\Program Files\Canon\DV Messenger\DV Messenger.exe permission to edit these settings for as long as the program is open, click YES.
Yes
No
More Info...
Do not show this dialog again

- DV Messenger starts. The DVM panel (DV Messenger panel) and Windows Messenger's sign-in window appears.
- The first time you start DV Messenger, it may take time until DV Messenger starts depending on the computer environment.

5. In the Windows Messenger window, click [Click here to sign in].



DVM Panel

Windows Messenger

To use DV Messenger, both you and your contact need to be online.

– If your contact is already online when you sign in:
A message will be send automatically to your contact notifying that you have signed in.

Message on the Computer Screen of Your Contact

– If your contact signs in when you are already online:
A message appears automatically notifying you that your contact has signed in.

Message on Your Computer Screen

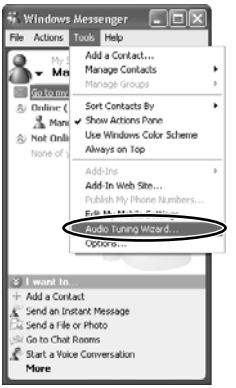
Preparing the Camcorder for Communication

When you have signed in, set the camcorder and adjust the volume of the speaker and microphone.

❍Connect speaker or headphones as necessary.
❍As microphone, use the microphone of the camcorder.

1. Set the camcorder to NETWORK mode.
(Camcorder without NETWORK mode: Set the camcorder to CAMERA or PLAY (VCR) mode.)
When you have set the camcorder to PLAY (VCR) mode, play back the tape.

2. Open the [Tools] menu and select [Audio Tuning Wizard].



3. Click [Next].

Audio and Video Tuning Wizard
This wizard helps you verify that your camera, speakers, and microphone are working properly.
Before continuing:
1. Close all other programs that show video, or play or record sound.
2. Make sure your camera, speakers, and microphone are plugged in and turned on.
To continue, click Next.
< Back
Next >
Cancel

4. Select your camcorder and click [Next].

If you are connecting a Canon camcorder using a USB cable, select [Canon USB Video]. If you are connecting a Canon camcorder using a DV cable, select [Canon DV Device].

5. When the video picture appears, click [Next].

- In NETWORK or CAMERA mode, the live video appears. In PLAY (VCR) mode, the recorded video appears.
- If you are using a USB cable, it may take about 10 seconds until the picture appears.

6. Read the explanation for speaker and microphone settings and click [Next].

Audio and Video Tuning Wizard
For best performance, arrange your speakers and microphone like this:
1. Keep the microphone close to your mouth – about 3 to 5 inches for most types.
2. Point the microphone away from the speakers (or use headphones) to avoid echoes.
To continue, click Next.
< Back
Next >
Cancel

7. Set [Microphone] and click [Next].

- If you are connecting a Canon camcorder using a USB cable, select [Canon USB Video]. If you are connecting a Canon camcorder using a DV cable, select [Canon DV Device].
- The installed sound device appears for [Speaker]. Proceed with the setting unchanged.

Audio and Video Tuning Wizard
Select the microphone and speakers you want to use:
Microphone:
Canon USB Video
Speakers:
Installed sound device
I am using headphones
The microphone and speakers you selected do not support acoustic echo cancellation. You should consider using headphones if the party you are talking to experiences any echo during a voice call.
< Back
Next >
Cancel

8. Click [Click to Test Speakers], adjust the volume and click [Next].

- Clicking [Click to Test Speakers] plays back a test sound.
- Move the volume lever with the mouse to adjust the speaker volume.

Audio and Video Tuning Wizard
Make sure that your speakers or headphones are plugged in and that the volume is acceptable.
Keep the volume comfortably low to avoid echoes.
Click to Test Speakers
Speaker Volume
< Back
Next >
Cancel

9. Check if the microphone volume is correctly indicated and click [Next].

- In NETWORK or CAMERA mode: Speak into the microphone of your camcorder and check if the volume indicator operates correctly.
- In PLAY (VCR) mode: Play back the tape and check if the volume indicator operates correctly.
- Sound input with the camcorder via IEEE1394 or USB connection cannot be adjusted with the volume lever.
- The volume indicator will not operate when the camcorder is in CARD CAMERA mode.

Audio and Video Tuning Wizard
Read the following text into your microphone in a normal speaking voice:
"If the indicator goes into the yellow area as I speak, I know the microphone will be adjusted properly. If not, I need to move the microphone closer."
Microphone Volume
< Back
Next >
Cancel

10. **Click [Finish].**

The settings for speaker and microphone are complete.

Audio and Video Tuning Wizard
You have now completed the Audio and Video Tuning Wizard.
If you have trouble with your camera, speakers, and microphone in the future or if you change your audio or video settings in another program, run this wizard again.
To close this wizard, click Finish.
< Back
Finish
Cancel

Starting a Videoconference

There are two methods to start a videoconference. You can invite your contact or you can accept an invitation from your contact.

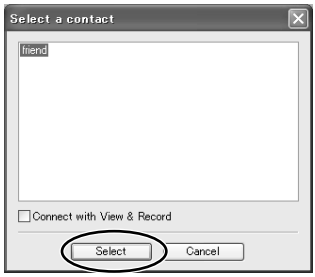
- ❍ If you connect to the Internet after starting DV Messenger, the connection may fail. Make sure to connect to the Internet first before starting DV Messenger.
- ❍ An error message may appear and the communication may not work correctly. In such case, reconfirm your setting in the [Audio Tuning Wizard].

■ Starting a Videoconference by Inviting a Contact

1. **On the DVM panel, click Connect.**

2. Select your contact and click [Select].

- Only online registered members will be listed. You can only perform a videoconference with members who have a camcorder connected and are using DV Messenger Version 2.
- Windows Messenger's [Conversation] window appears.



- A connecting request is send to your contact and a dialog appears on your computer screen that DV Messenger is waiting for response. If you click [Cancel], the request will be cancelled.

- If your contact accepts the request, the above dialog disappears. The communication between your and your contact's DV Messenger starts and you can now operate the camcorder of your contact from the DVM panel.

Video picture of your contact's camcorder

Video picture of your camcorder

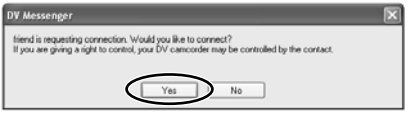
- If your contact does not respond within 30 seconds after you press [Select], the connection will be canceled, and a message is automatically sent to your contact asking to download DV Messenger Version 2.

■ Starting a Videoconference by Accepting an Invitation

If your contact clicks on Connect and selects you as the contact, a connecting request appears on your computer screen.

When the connecting request dialog appears, click [Yes].

The communication between your and your contact's DV Messenger starts and you can now operate the camcorder of your contact from the DVM panel.


DV Messenger
friend is requesting connection. Would you like to connect?
If you are giving a right to control, your DV camcorder may be controlled by the contact.
Yes
No

Ending DV Messenger

Disconnecting DV Messenger

1. **Click Disconnect.**

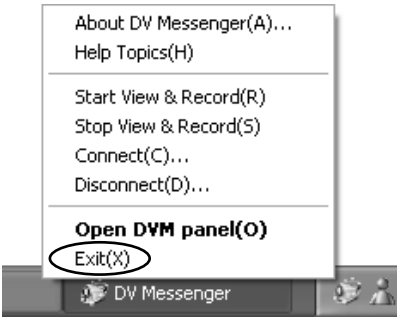
2. **When the confirmation window appears, click [YES].**

The communication with your contact ends. If you wish to communicate with another contact, click Connect and select a contact from the list.

Ending DV Messenger

Click the DV Messenger icon on the taskbar and select [Exit] from the displayed menu.

DV Messenger closes.



Canon

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